I. AMENDMENTS

Listing of the Claims:

The following Listing of Claims replaces all prior versions of the Claims.

- 1. (Currently Amended) A method for prophylaxis or treating Sinusoidal Obstruction Syndrome in a human patient in need thereof, comprising administering an effective amount of a matrix metalloproteinase inhibitor that inhibits up-regulation of MMP-9 and/or MMP-2 isoenzymes.
- 2. (Currently Amended) A method for prophylaxis or treating chemotherapy- or radiation-induced liver disease in a human patient in need thereof, comprising administering an effective amount of a matrix metalloproteinase inhibitor that inhibits up-regulation of MMP9- and/or MMP-2 isoenzymes.
- 3. (Previously Amended) The method of claim 2, wherein said chemotherapy-induced liver disease includes Sinusoidal Obstruction Syndrome, nodular regenerative hyperplasia peliosis hepatic, immunosuppression-induced hepatic venoocclusive disease, and sinusoidal dilatation.
- 4. (Currently Amended) A method for prophylaxis or treating Sinusoidal Obstruction Syndrome in a human patient in need thereof, comprising administering an effective amount of a matrix metalloproteinase inhibitor, wherein said matrix metalloproteinase inhibitor is doxycycline or 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid .
- 5. (Previously Amended) The method of claim 4 or 20, wherein said matrix metalloproteinase inhibitor is doxycycline.
- 6. (Previously Amended) The method of claim 5 wherein 15 mg/kg of said doxycycline is administered twice daily.
- 7. (Currently Amended) The method of claim 4 or 20, wherein said matrix metalloproteinase inhibitor is 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid

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- 8. (Currently Amended) The method of claim 7 wherein 100-200 μ g/hour of said 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid is administered.
- 9. (Previously Amended) The method of claim 4 or 20, wherein said matrix metalloproteinase inhibitor is administered for up to 4 weeks.
- 10. (Previously Amended) The method of claim 4 or 20, wherein said matrix metalloproteinase inhibitor is Marimastat, Prinomastat, RS-130,830, (N-hydroxy-2(R)-[[4-methoxysulfonl](3-picolyl) amino]-3-methylbuteamide hydrochloride) monohydrate, Solimastat, BAY 12-9566, (3(R)(cyclopentylmethyl)-2(R)-[(3,4,4-trimethyl-2,5-dioxo-1-imidazolidinyl)methyl]-4-oxo-4-piperidinobutyrohydroxamic acid), BMS-272591, Ilomastat, D2163, Metastat, Neovastat, or Periostat.
- 11. (Previously Amended) A method for prophylaxis or treating chemotherapy or radiation induced liver disease in a patient in need thereof comprising administering an effective dose of a matrix metalloproteinase inhibitor selected from doxycycline or 2-[(4-bipheylsulfonyl)amino]-3-phenyl-propionic acid.
- 12. (Previously Amended) The method of claim 11, wherein said matrix metalloproteinase inhibitor is doxycycline.
- 13. (Previously Amended) The method of claim 12, wherein 15 mg/kg of said doxycycline is administered twice daily.
- 14. (Currently Amended) The method of claim 11, wherein said matrix metalloproteinase inhibitor is 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid.
- 15. (Currently Amended) The method of claim 14, wherein 100-200 μ g/hour of said 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid biphenylsulfonyl)amino]-3-phenyl-propionic acid is administered.
- 16. (Previously Amended) A method for prophylaxis or treating chemotherapy or radiation induced liver disease in a patient in need thereof comprising administering 15 mg/kg of doxycycline twice daily.

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- 17. (Previously Amended) A method for prophylaxis or treating chemotherapy or radiation induced liver disease in a patient in need thereof, comprising administering 100-200 μ g/hour of 2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid.
 - 18. (Canceled).
 - 19. (Canceled).
- 20. (Currently Amended) A method for <u>supporting liver function in a prophylaxis or treating patient undergoing</u> chemotherapy- or radiation <u>treatment-induced liver disease in a human patient in need thereof</u>, comprising administering an effective amount of a matrix metalloproteinase inhibitor <u>to said patient</u> wherein said matrix metalloproteinase inhibitor is doxycycline or <u>2-[1(4-bisphenylsulfonyl)amino]-3-phenyl-propionic acid</u>.

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